

SEQUENCE LISTING

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sub B1

<110> Danks, Mary K.
Potter, Philip M.
Peter, Houghton J.

<120> Compositions and Methods for Sensitizing and Inhibiting
Growth of Human Tumor Cells

<130> SJ-0004

<140>

<141>

<150> 60/075,258

<151> 1998-02-19

<160> 26

<170> PatentIn Ver. 2.0

<210> 1

<211> 34

<212> PRT

<213> Oryctolagus cuniculus

<220>

<221> UNSURE

<222> (7)

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<221> UNSURE

<222> (33)

<400> 1

His Pro Ser Ala Pro Val Xaa Val Asp Thr Val His Gly Lys Val Leu
1 5 10 15

Gly Lys Phe Val Ser Xaa Glu Gly Phe Ala Gln Pro Val Ala Lys Phe
20 25 30

Xaa Gly

<210> 2

<211> 36

<212> PRT

<213> Oryctolagus cuniculus

<400> 2

His Pro Ser Ala Pro Pro Val Val Asp Thr Val Lys Gly Lys Val Leu

1

5

10

15

Gly Lys Phe Val Ser Leu Glu Gly Phe Ala Gln Pro Val Ala Val Phe

20

25

30

Leu Gly Val Pro

35

<210> 3

<211> 54

<212> PRT

<213> Homo sapiens

<400> 3

Met Trp Leu Arg Ala Phe Ile Leu Ala Thr Leu Ser Ala Ser Ala Ala

1

5

10

15

Trp Gly His Pro Ser Ser Pro Pro Val Val Asp Thr Val His Gly Lys

20

25

30

Val Leu Gly Lys Phe Val Ser Leu Glu Gly Phe Ala Gln Pro Val Ala

35

40

45

Ile Phe Leu Gly Ile Pro

50

<210> 4

<211> 54

<212> PRT

<213> Rattus rattus

<400> 4

Met Trp Leu Cys Ala Leu Val Trp Ala Ser Leu Ala Val Cys Pro Ile

1

5

10

15

Trp Gly His Pro Ser Ser Pro Pro Val Val Asp Thr Thr Lys Gly Lys

20

25

30

Val Leu Gly Lys Tyr Val Ser Leu Glu Gly Phe Thr Gln Pro Val Ala

35

40

45

Val Phe Leu Gly Val Pro

50

<210> 5

<211> 54

<212> PRT

<213> Mus musculus

<400> 5

Met Trp Leu His Ala Leu Val Trp Ala Ser Leu Ala Val Cys Pro Ile

1

5

10

15

Leu Gly His Ser Leu Leu Pro Pro Val Val Asp Thr Thr Gln Gly Lys

20

25

30

Val Leu Gly Lys Tyr Ile Ser Leu Glu Gly Phe Glu Gln Pro Val Ala

35

40

45

Val Phe Leu Gly Val Pro

50

<210> 6

<211> 5

<212> PRT

<213> Oryctolagus cuniculus

<400> 6

His Pro Ser Ala Pro

1

5

<210> 7

<211> 14

<212> DNA

<213> Oryctolagus cuniculus

<400> 7

cacccaagcg cacc

14

<210> 8

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic, "N"
is inosine

<400> 8

caccnagcg cncc

14

<210> 9

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic, "N"
is inosine

<400> 9

caccntcng cncc

14

<210> 10

<211> 7

<212> PRT

<213> Oryctolagus cuniculus

<400> 10

Ala Phe Trp Thr Glu Leu Trp

1

5

<210> 11

<211> 21

<212> DNA

<213> Oryctolagus cuniculus

<400> 11

gcattctgga cagaactatg g

21

<210> 12

<211> 21

<212> DNA

<213> Oryctolagus cuniculus

<400> 12

ccaaagttca gtccagaaag c

21

<210> 13

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic, "N"
is inosine

<400> 13

ccanagtctt gtccagaang c

21

<210> 14

<211> 21

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Synthetic, "N"
is inosine

<400> 14

ccataattct gtccagaang c

21

<210> 15

<211> 30

<212> PRT

<213> Rattus rattus

<400> 15

Met Trp Leu Cys Ala Leu Ala Leu Ala Ser Leu Ala Ala Cys Thr Ala
1 5 10 15

Trp Gly His Pro Ser Ala Pro Pro Val Val Asp Thr Val Lys
20 25 30

<210> 16

<211> 30

<212> PRT

<213> Rattus sp.

<400> 16

Met Trp Leu Cys Ala Leu Val Trp Ala Ser Leu Ala Val Cys Pro Ile
1 5 10 15

Trp Gly His Pro Ser Ser Pro Pro Val Val Asp Thr Thr Lys
20 25 30

<210> 17

<211> 30

<212> PRT

<213> Homo sapiens

<400> 17

Met Trp Leu Arg Ala Phe Ile Leu Ala Thr Leu Ser Ala Ser Ala Ala
 1 5 10 15

Trp Gly His Pro Ser Ser Pro Pro Val Val Asp Thr Val His
 20 25 30

<210> 18

<211> 30

<212> PRT

<213> Rattus rattus

<400> 18

Met Arg Leu Tyr Pro Leu Val Trp Leu Phe Leu Ala Ala Cys Thr Ala
 1 5 10 15

Trp Gly Tyr Pro Ser Ser Pro Pro Val Val Asn Thr Val Lys
 20 25 30

<210> 19

<211> 30

<212> PRT

<213> Mus musculus

<400> 19

Met Trp Leu His Ala Leu Val Trp Ala Ser Leu Ala Val Cys Pro Ile
 1 5 10 15

Leu Gly His Ser Leu Leu Pro Pro Val Val Asp Thr Thr Gln
 20 25 30

<210> 20

<211> 1717

<212> DNA

<213> Oryctolagus cuniculus

<400> 20

gaattctgcc atgtggctct gtgcattggc cctggcctct ctgcccgtt gcacggcttg 60
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 gccccctctt ggatccctga ggtttgacc accacagcct gcagaatcat tgagccacgt 240
 gaagaacacc acctcctacc ctcccatgtg ctcccaggac gcagtatcag ggcatatgct 300
 ctcggaagtc ttcaccaaca gaaaagagaa catccctctt aagttttctg aagactgcct 360
 ttacctgaat atttacaccc ctgctgacct gacaaagaga ggcaggctgc cggtgatggt 420

gtggatccat ggaggtgggc tgatggtggg tggagcatca acctatgatg gcctggctct 480
 ttctgcccac gagaacgtgg tgggtggtgac cattcagtac cgcttgggca tctggggatt 540
 cttcagcaca ggagatgagc acagccgagg gaactggggc cacttgacc aggtggctgc 600
 gctgcggtgg gtccaggaca acattgccaa ctttgagggg gaccaggct ctgtgaccat 660
 ctttgagag tcagcaggag gtcaaagtgt ctctatcctt ctattatccc cctgaccaa 720
 gaatctcttc catcgagcaa ttccgagag tggcgtggcc ctcccttcca gtctcttcag 780
 gaagaacacc aagtccttgg ctgagaaaat tgccatcgaa gctgggtgta aaaccaccac 840
 ctgggtgtgc atggttcaact gcctggccca gaagacagag gaagaactca tggaggtgac 900
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 cctgaccact gtgattgatg ggggtgctgt gccaaaagca cctgcagaga ttctggcaga 1020
 gaagaaatac aacatgctgc cctacatggt gggaatcaac cagcaagagt ttggctggat 1080
 tatccaatg caaatgctgg gctatccact ctctgaaggc aaactggacc agaagacagc 1140
 tacagaactc ttgtggaagt cctaccccat tgtcaatgtc tctaaggagc tgactccagt 1200
 ggccactgag aagtatttag gagggacaga tgaccctgtc aaaaagaaag acttggttct 1260
 ggacatgctt gcagatttgt tatttggtgt cccatctgtg aatgtggctc gtcaccacag 1320
 agatgctgga gccccacct atatgtatga gtatcggtat cgcccaagct tctcatcaga 1380
 catgagacc cagacagtga taggggacca tggagatgag atcttctctg tcttaggagc 1440
 cccgttttta aaagaggggtg ccacagaaga ggagatcaaa ctgagcaaga tggatgatgaa 1500
 atactgggcc aactttgcta ggaatgggaa tcccaatgga gaagggttc ctcaatggcc 1560
 agcatatgac tacaaggaag gttacctga gattggagcc accaccagg cagcccagaa 1620
 actgaaagac aaggaagtgg ctttctggac tgagctctgg gccaggagg cagcaaggcc 1680
 acgtgagaca gagcacattg agctgtgaat tgaattc 1717

<210> 21

<211> 565

<212> PRT

<213> *Oryctolagus cuniculus*

<400> 21

Met Trp Leu Cys Ala Leu Ala Leu Ala Ser Leu Ala Ala Cys Thr Ala
 1 5 10 15

Trp Gly His Pro Ser Ala Pro Pro Val Val Asp Thr Val His Gly Lys
 20 25 30

Val Leu Gly Lys Phe Val Ser Leu Glu Gly Phe Ala Gln Pro Val Ala
 35 40 45

Val Phe Leu Gly Val Pro Phe Ala Lys Pro Pro Leu Gly Ser Leu Arg
 50 55 60

Phe Ala Pro Pro Gln Pro Ala Glu Ser Trp Ser His Val Lys Asn Thr
 65 70 75 80

Thr Ser Tyr Pro Pro Met Cys Ser Gln Asp Ala Val Ser Gly His Met
 85 90 95

Leu Ser Glu Leu Phe Thr Asn Arg Lys Glu Asn Ile Pro Leu Lys Phe

100 105 110
Ser Glu Asp Cys Leu Tyr Leu Asn Ile Tyr Thr Pro Ala Asp Leu Thr
115 120 125
Lys Arg Gly Arg Leu Pro Val Met Val Trp Ile His Gly Gly Gly Leu
130 135 140
Met Val Gly Gly Ala Ser Thr Tyr Asp Gly Leu Ala Leu Ser Ala His
145 150 155 160
Glu Asn Val Val Val Val Thr Ile Gln Tyr Arg Leu Gly Ile Trp Gly
165 170 175
Phe Phe Ser Thr Gly Asp Glu His Ser Arg Gly Asn Trp Gly His Leu
180 185 190
Asp Gln Val Ala Ala Leu Arg Trp Val Gln Asp Asn Ile Ala Asn Phe
195 200 205
Gly Gly Asp Pro Gly Ser Val Thr Ile Phe Gly Glu Ser Ala Gly Gly
210 215 220
Gln Ser Val Ser Ile Leu Leu Leu Ser Pro Leu Thr Lys Asn Leu Phe
225 230 235 240
His Arg Ala Ile Ser Glu Ser Gly Val Ala Leu Leu Ser Ser Leu Phe
245 250 255
Arg Lys Asn Thr Lys Ser Leu Ala Glu Lys Ile Ala Ile Glu Ala Gly
260 265 270
Cys Lys Thr Thr Thr Ser Ala Val Met Val His Cys Leu Arg Gln Lys
275 280 285
Thr Glu Glu Glu Leu Met Glu Val Thr Leu Lys Met Lys Phe Met Ala
290 295 300
Leu Asp Leu Val Gly Asp Pro Lys Glu Asn Thr Ala Phe Leu Thr Thr
305 310 315 320
Val Ile Asp Gly Val Leu Leu Pro Lys Ala Pro Ala Glu Ile Leu Ala
325 330 335
Glu Lys Lys Tyr Asn Met Leu Pro Tyr Met Val Gly Ile Asn Gln Gln
340 345 350
Glu Phe Gly Trp Ile Ile Pro Met Gln Met Leu Gly Tyr Pro Leu Ser

355 360 365
Glu Gly Lys Leu Asp Gln Lys Thr Ala Thr Glu Leu Leu Trp Lys Ser
370 375 380
Tyr Pro Ile Val Asn Val Ser Lys Glu Leu Thr Pro Val Ala Thr Glu
385 390 395 400
Lys Tyr Leu Gly Gly Thr Asp Asp Pro Val Lys Lys Lys Asp Leu Phe
405 410 415
Leu Asp Met Leu Ala Asp Leu Leu Phe Gly Val Pro Ser Val Asn Val
420 425 430
Ala Arg His His Arg Asp Ala Gly Ala Pro Thr Tyr Met Tyr Glu Tyr
435 440 445
Arg Tyr Arg Pro Ser Phe Ser Ser Asp Met Arg Pro Lys Thr Val Ile
450 455 460
Gly Asp His Gly Asp Glu Ile Phe Ser Val Leu Gly Ala Pro Phe Leu
465 470 475 480
Lys Glu Gly Ala Thr Glu Glu Glu Ile Lys Leu Ser Lys Met Val Met
485 490 495
Lys Tyr Trp Ala Asn Phe Ala Arg Asn Gly Asn Pro Asn Gly Glu Gly
500 505 510
Leu Pro Gln Trp Pro Ala Tyr Asp Tyr Lys Glu Gly Tyr Leu Gln Ile
515 520 525
Gly Ala Thr Thr Gln Ala Ala Gln Lys Leu Lys Asp Lys Glu Val Ala
530 535 540
Phe Trp Thr Glu Leu Trp Ala Lys Glu Ala Ala Arg Pro Arg Glu Thr
545 550 555 560
Glu His Ile Glu Leu
565

<210> 22

<211> 6

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic

<400> 22

cacgtg

6

<210> 23

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic

<400> 23

ggcaggaatt ctgccatgtg gctctg

26

<210> 24

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic

<400> 24

cgggaattca cattcacagc tcaatgt

27

<210> 25

<211> 6

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic

<400> 25

cacctg

6

<210> 26

<211> 543

<212> PRT

<213> Oryctolagus cuniculus

<400> 26

Met Trp Leu Cys Ala Leu Ala Leu Ala Ser Leu Ala Ala Cys Thr Ala

1

5

10

15

Trp Gly His Pro Ser Ala Pro Pro Val Val Asp Thr Val His Gly Lys

20 25 30

Val Leu Gly Lys Phe Val Ser Leu Glu Gly Phe Ala Gln Pro Val Ala
35 40 45

Val Phe Leu Gly Val Pro Phe Ala Lys Pro Pro Leu Gly Ser Leu Arg
50 55 60

Phe Ala Pro Pro Gln Pro Ala Glu Ser Trp Ser His Val Lys Asn Thr
65 70 75 80

Thr Ser Tyr Pro Pro Met Cys Ser Gln Asp Ala Val Ser Gly His Met
85 90 95

Leu Ser Glu Leu Phe Thr Asn Arg Lys Glu Asn Ile Pro Leu Lys Phe
100 105 110

Ser Glu Asp Cys Leu Tyr Leu Asn Ile Tyr Thr Pro Ala Asp Leu Thr
115 120 125

Lys Arg Gly Arg Leu Pro Val Met Val Trp Ile His Gly Gly Gly Leu
130 135 140

Met Val Gly Gly Ala Ser Thr Tyr Asp Gly Leu Ala Leu Ser Ala His
145 150 155 160

Glu Asn Val Val Val Val Thr Ile Gln Tyr Arg Leu Gly Ile Trp Gly
165 170 175

Phe Phe Ser Thr Gly Asp Glu His Ser Arg Gly Asn Trp Gly His Leu
180 185 190

Asp Gln Val Ala Ala Leu Arg Trp Val Gln Asp Asn Ile Ala Asn Phe
195 200 205

Gly Gly Asp Pro Gly Ser Val Thr Ile Phe Gly Glu Ser Ala Gly Gly
210 215 220

Gln Ser Val Ser Ile Leu Leu Leu Ser Pro Leu Thr Lys Asn Leu Phe
225 230 235 240

His Arg Ala Ile Ser Glu Ser Gly Val Ala Leu Leu Ser Ser Leu Phe
245 250 255

Arg Lys Asn Thr Lys Ser Leu Ala Glu Lys Ile Ala Ile Glu Ala Gly
260 265 270

Cys Lys Thr Thr Thr Ser Ala Val Met Val His Cys Leu Arg Gln Lys

275 280 285
Thr Glu Glu Glu Leu Met Glu Val Thr Leu Lys Met Lys Phe Met Ala
290 295 300
Leu Asp Leu Val Gly Asp Pro Lys Glu Asn Thr Ala Phe Leu Thr Thr
305 310 315 320
Val Ile Asp Gly Val Leu Leu Pro Lys Ala Pro Ala Glu Ile Leu Ala
325 330 335
Glu Lys Lys Tyr Asn Met Leu Pro Tyr Met Val Gly Ile Asn Gln Gln
340 345 350
Glu Phe Gly Trp Ile Ile Pro Met Gln Met Leu Gly Tyr Pro Leu Ser
355 360 365
Glu Gly Lys Leu Asp Gln Lys Thr Ala Thr Glu Leu Leu Trp Lys Ser
370 375 380
Tyr Pro Ile Val Asn Val Ser Lys Glu Leu Thr Pro Val Ala Thr Glu
385 390 395 400
Lys Tyr Leu Gly Gly Thr Asp Asp Pro Val Lys Lys Lys Asp Leu Phe
405 410 415
Leu Asp Met Leu Ala Asp Leu Leu Phe Gly Val Pro Ser Val Asn Val
420 425 430
Ala Arg His His Arg Asp Ala Gly Ala Pro Thr Tyr Met Tyr Glu Tyr
435 440 445
Arg Tyr Arg Pro Ser Phe Ser Ser Asp Met Arg Pro Lys Thr Val Ile
450 455 460
Gly Asp His Gly Asp Glu Ile Phe Ser Val Leu Gly Ala Pro Phe Leu
465 470 475 480
Lys Glu Gly Ala Thr Glu Glu Glu Ile Lys Leu Ser Lys Met Val Met
485 490 495
Lys Tyr Trp Ala Asn Phe Ala Arg Asn Gly Asn Pro Asn Gly Glu Gly
500 505 510
Leu Pro Gln Trp Pro Ala Tyr Asp Tyr Lys Glu Gly Tyr Leu Gln Ile
515 520 525
Gly Ala Thr Thr Gln Ala Ala Gln Lys Leu Lys Asp Lys Glu Val

530

535

540